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| 09/346,354      | 07/02/1999  | SAEED GANJI          | EFIM0051            | 2282             |

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EXAMINER

POON, KING Y

ART UNIT PAPER NUMBER

2624

DATE MAILED: 05/16/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

CA

# Office Action Summary

Application No.

09/346,354

Applicant(s)

GANJI, SAEED

Examiner

King Y. Poon

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 13 December 2001 and 14 March 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)  
3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_. 6) ☐ Other: \_\_\_\_\_

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## **DETAILED ACTION**

### ***Request for Continued Examination***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/13/2001 has been entered.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 3-6, 10 are rejected under 35 U.S.C. 102(e) as being anticipated by deSilva.

Regarding claim 3: deSilva teaches a method for generating an original set of printer description (PPD) text files, the method comprising the steps of: providing at least one base PPD text file (column 18 line 30-62, document 601 of column 13 line 28) for a single natural language (C++, written in English, column 6 line 57, and column 26) and a single platform (computer,

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column 9 line 45) combination for a particular printer; (printer, column 10 line 8); providing at least one build file (a collection (file) of instances of objects, column 12 line 39, column 18 line 35-43) that describes a product or platform specific set of features of the base PPD (column 12 line 41-46) and supported natural languages; (C++, written in English/supported natural languages, column 6 line 57, and column 26); and generating at least one set of PPD files (the set that is edited by the developer, column 13 line 30-32) from the based PPD (601 that is provided to the developer, column 13 line 29-30) and the build file. (the object of instance that is replaced by printer specific implementations, column 13 line 30-32)

Regarding claim 4: deSilva teaches a method for revising an original set of printer description (PPD) text files, (document 601, column 13 line 28-32) the method comprising the steps of: beginning with at least one base PPD (document 601, column 13 line 28-32) and at least one build file (a collection (file) of instances of objects, printer specific implementations, column 12 line 39, column 18 line 35-43, column 13, lines 30-35) that are responsible for generating at least one PPD file for at least one specific target environment; (column 13 line 15); wherein the at least one build file contains information (the printer specific implementations are used for modifying the PPD 601, column 13, lines 25-35) as to how the at least one based PPD is to be edited for supported natural language (column 26, the printer specific implementation is written in English-a supported natural language); modifying (column 13 line 30-32) the at least one base PPD and/or the at least one build file into corresponding revised PPD and/or build files; and generating a revised set (the set of PPD that are used by the same type of printer, column 13 line

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28-29; when the build file and the PPD are modified, a modified (revise) set of PPD files are generated.) of PPD files from the revised base PPD and/or build file.

Regarding claim 5: deSilva teaches a method for generating an original set of printer description (PPD) text files, the method comprising the steps of: providing at least one base PPD text file (column 18 line 30-62, document 601 of column 13 line 28) for a single natural language (C++, written in English, column 6 line 57, and column 26) and a single platform (computer, column 9 line 45) combination for a particular printer; (printer, column 10 line 8); providing at least one build file (a collection (file) of instances of objects, column 12 line 39, column 18 line 35-43) that describes a product or platform specific set of features of the base PPD (column 12 line 41-46); wherein the at least one build file contains information (the printer specific implementations are used for modifying the PPD 601, column 13, lines 25-35) as to how the at least one based PPD is to be edited for supported natural language (column 26, the printer specific implementation is written in English-a supported natural language); and generating at least one set of PPD files (the set that is edited by the developer, column 13 line 30-32) from the based PPD (601 that is provided to the developer, column 13 line 29-30) and the build file. (the object of instance that is replaced by printer specific implementations, column 13 line 30-32)

Regarding claim 6: deSilva teaches a method for revising an original set of printer description (PPD) text files, (document 601, column 13 line 28-32) the method comprising the steps of: beginning with at least one base PPD (document 601, column 13 line 28-32) and at least one build file (a collection (file) of instances of objects, column 12 line 39, column 18 line 35-43)

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that are responsible for generating at least one PPD file for at least one specific target environment; (column 13 line 15); modifying (column 13 line 30-32) the at least one base PPD and/or the at least one build file into corresponding revised PPD and/or build files; and generating a revised set (the set of PPD that are used by the same type of printer, column 13 line 28-29; when the build file and the PPD are modified, a modified (revise) set of PPD files are generated.) of PPD files from the revised base PPD and/or build file.

Regarding claim 10: deSilva teaches a method for generating an original set of printer description (PPD) text files, the method comprising the steps of: providing at least one base PPD; (column 18 line 30-62, 601, of column 13 line 28); providing at least one build file (a collection (file) of instances of objects, column 12 line 39, column 18 line 35-43) of text that describes a set of special features associated with a particular printer (column 12 line 41-46) when used in one particular platform (computer, column 9 line 45) and natural language (C++, written in English/supported natural languages, column 6 line 57, and column 26) environment; generating at least one PPD text file based upon information provided by the base PPD (601, column 13 line 28-32) and the build file. (the object of instance that is replaced by printer specific implementations, column 13 line 30-32)

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 2, 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over deSilva and Andrews et al.

Regarding claims 1, 7: deSilva teaches a development environment (see developer, column 12 line 48, column 13 line 29-32) for producing a platform-language (column 18 line 29-61) constellation of printer description files, (PPD column 18 line 32) comprising: at least one base printer description (PPD) text file (column 18 line 30-62; each PPD text files (printer personality document, column 12 line 36) contains a file (list of collection) of PPD (printer description) (see instance of object that implement a particular printer, column 12 line 38-40, line 41-46, column 18 line 35-60) for a single natural language (C++, written in English/supported natural languages, column 6 line 57, and column 26) and a single platform (computer, column 9 line 45) combination for a particular printer; (printer, column 10 line 8); and a PPD developer ( column 12 line 48) to generate the PPD file.

deSilva does not teach that the developer uses a PPD generator connected to import at least one base PPD and to generate therefrom a plurality of PPD files for a variety of languages and platforms.

Andrew, in the same area of developing computer programs for computers to execute, (column 1 line 15-25), teaches that not every computer program developed can be executed on every machine (column 1 line 30), and that the computer program is typically complex and

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difficult to write. (Column 1 line 35-36). Rewriting programs in multiple languages to run on multiple brands of computers is impractical. (Column 1 line 36-37) To solve the problem, Andrew teaches that a programmer would write and maintain the computer program in a based source language, (column 1 line 62-63), and to use a translator (fig. 4, column 3 line 35-40) to import the source language and translate the source language to other languages (see target language, column 1 line 64-65; and column 1 line 25-32 teaches that there are multiple target languages for multiple target computers)

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the PPD files developing method of deSilva by having the developer of deSilva to use translators (PPD generator) to import the base PPD file written in a base computer language to generate therefrom a plurality of PPD files with each PPD file having a target computer language for a target computer

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the PPD files developing method of deSilva by the teaching of Andrew because of the following reasons: (a) it would save time and effort for the PPD file developer by avoiding rewriting complex and difficult programs in multiple languages to run on multiple brands of computers.

Regarding claims 2, 8: deSilva teaches that in order to carry out the translation process, the development environment of Claim 1, further comprising: at least one build file (the list (file)



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of specific printer information of column 18 line 35-47) that describes a product (the printer of the PPD file, column 13 line 15)

Regarding claims 9: Andrew teaches that the development environment of Claim 8, wherein: the PPD generator parses the at least one base PPD and the at least one build file into text-based instructions. (column 6 line 55-65). deSilva further teaches that the text-based instruction of the created PPD file is parsed and assembled (fig. 7) by PostScript printer drivers. (Printer handler/printer drive, column 12 line 50, column 9 line 66, and PostScript printer, column 18 line 62)

### ***Response to Arguments***

6. Applicant's arguments filed on 12/13/2001 have been fully considered but they are not persuasive.

With respect to applicant's argument that deSilva does not teach the use of a natural language such as English has been fully considered but the argument is not found to be persuasive.

In reply: deSilva at column 6, lines 55-67 teaches the use of C++ programming written in a human readable script which is human language. Column 26, deSilva teaches the human readable script is written in English-a natural language.

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With respect to applicant's argument that deSilva does not teach at least one build file contains information as to how the at least one base PPD is to be edited for supported natural language, has been fully considered but the argument is not found to be persuasive.

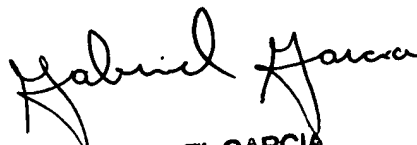
In reply: Column 13, lines 30-35, deSilva teaches the PPD file is edited by a developer using printer specific implementation (build file) which is written in natural language (English). (Column 26).

Therefore, deSilva teaches at least one build file (the collected instance of the printer specific implementation) contains information as to how the at least one base PPD (PPD file) is to be edited for supported natural language. (C++ programming language wrote in English/supported natural language)

### *Conclusion*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to King Y. Poon whose telephone number is (703) 305-0892 or to Supervisor Mr. David Moore whose phone number is (703) 308-7452.

May 8, 2002

  
GABRIEL GARCIA  
PRIMARY EXAMINER